IMAGE MATCHING SYSTEM AND IMAGE MATCHING METHOD AND

PROGRAM

5   ABSTRACT OF THE DISCLOSURE

An image matching system, method, and program for
matching two images even if there is a difference of
parallel movement, rotation angle, and scale between two
10   images. A Fourier-Mellin transform is a Fourier transform
and a log- polar coordinate transform to a registered
image and a matching image. A phase only correlation unit
and scalar information-rotation information generation
unit generate correction information including scalar
15   information and rotation information based on correlation
strength of the phase information based on the transform
result, a correction unit corrects the matching image RIM
in accordance with the correction information, a parallel
movement unit performs phase only correlation based on
20   the image resulting from the correction processing and
the registered image, a correlation value generation unit
generates a correlation value based on the correlation
image data, and a judgment unit performs judgment
concerning the matching based on the correlation value.

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